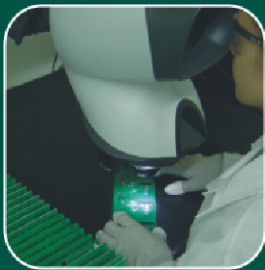**Full Gauge®**
CONTROLS

INSTRUMENTS WITH COMBINED FUNCTIONS

Diversity combined with Versatility

TEMPERATURE

Frozen

TC-900R*i* Thermometer + Thermostat
TC-900R*i clock* Thermometer + Thermostat + Weekly defrost scheduling + Internal Clock + Connection with Sitrad®
TC-910R*i* Thermometer + Dual-stage Thermostat + Hour Meter
TC-920R*i* Thermometer + Thermostat + Digital input + Intelligent Setpoint
TC-940R*i* Thermometer + Thermostat + Temperature-triggered defrost + Alarm

Refrigerated

MT-512R*i*/MT-512C Thermometer + Thermostat
MT-512R*i plus* Thermometer + Thermostat + Connection with Sitrad®
MT-512R*i* LOG Thermometer + Thermostat + Internal datalogger + Connection with Sitrad®

MT-516CVT Thermometer + Thermostat + Cyclic timer + True RMS voltage monitor
MT-516RVT*i plus* Thermometer + Thermostat + Cyclic timer + True RMS voltage monitor + Connection with Sitrad®
RT-607R*i plus* Thermometer + Thermostat + Weekly event scheduling + Internal Clock + Connection with Sitrad®
MT-543R*i plus* Thermometer + Thermostat + Cyclic timer + Internal buzzer + Connection with Sitrad®
Auto PID *plus* PID controller with analog and PWM outputs + Alarm + Connection with Sitrad®
TI-33R*i plus* Thermometer with up to three sensors + Connection with Sitrad®

TEMPERATURE AND HUMIDITY

MT-531R*i plus* Thermometer + Thermostat + Hygrometer + Humidity switch + Configurable auxiliary output + Connection with Sitrad®
AHC-80 *plus* Thermometer + Thermostat + Hygrometer + Humidity switch (up to 100% RH) + Connection with Sitrad®

PRESSURE

PCT-100 Pressure gauge + Single-stage pressure switch
PCT-400 R*i plus* Pressure gauge + Rack-mount four-stage pressure switch + Connection with Sitrad®
PCT-420 R*i plus* Pressure switch with four independent stages + Connection with Sitrad®
PCT-1600 *plus* Pressure Gauge + Rack-mount sixteen-stage pressure switch + Connection with Sitrad®

TIMERS

PROGS Hourly scheduler + Internal clock
TEMPUS Timer + Cyclic timer

SOLAR HEATING

MICROSOL/MICROSOL R*i* Thermometer + Thermostat + Antifreeze System
MICROSOL II *plus* Thermometer + Thermostat + Antifreeze System + Support output (electric, gas or diesel) + Connection with Sitrad®

VOLTAGE

PhaseLOG *plus* Voltmeter + Single-phase, Two-phase, Three-phase True RMS voltage monitor + Programmable under- and over-voltage protective devices + Protection against phase fault and inversion + Modular and angular asymmetry + Internal datalogger + Connection with Sitrad®
EnergyLOG *plus* Single-phase meter for electric magnitudes: True RMS voltage + True RMS current + power factor + real power + reactive power + apparent power + power + Connection with Sitrad®

FROZEN

TC-900R*i clock*

For cooling and defrosting, works with two sensors, being one for ambient temperature and other fixed to the evaporator that controls defrost ending. It has an internal clock for real-time programming of up to eight independent defrost operations per day, with weekly schedule, and permanent internal battery to ensure clock synchronization for many years, even in case of power failure.

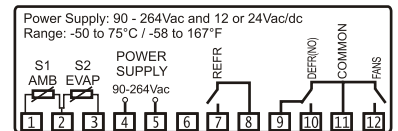Application examples: walk-in and display freezers.

Dimension: 71 x 28 x 71 mm.

Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 75°C
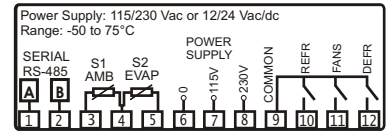
TC-900R*i* Power

Temperature controller for freezers that automates the defrosting processes in accordance with the installation's necessities, providing greater energy economization. With a powerful relay of 16A, it directly commands compressors of up to 1HP and has a keyed power supply (universal port of 90 to 264 VAC). The defrost exit has a 10 A current capacity, as well as also having Normally Closed (NC) contact available, allowing the condenser ventilators to be turned off when the defrosting operation is being carried out by hot gas. It also has indicators in °C and °F and digital filters, which have the purpose of simulating an increase in mass in the environment sensor (S1), thereby increasing its response time (thermal inertia).]

Dimension: 71 x 28 x 71 mm.

Power Supply: 90 - 264Vac and 12 or 24Vac/dc
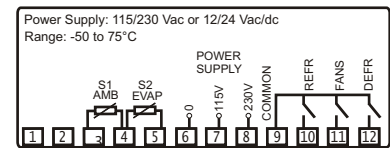Range: -50 to 75°C / -58 to 167°F

TC-900R*i*

For cooling and defrosting, works with two sensors, being one for ambient temperature and other fixed to the evaporator that controls defrost ending.

Application examples: walk-in and display freezers.

Dimension: 71 x 28 x 71 mm.

Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 75°C

TC-910R*i*

It features four control outputs, two for cooling (dual-stage), one for defrosting, and one for evaporator's fans. The defrost output relay has a dual-throw contact (NO and NC) that can be used to switch off the condenser's fan during defrost, when it is performed by means of hot gas. Besides, it has two independent hour meters for signaling maintenance intervals of compressors, allowing to be reinitialized when the preset operating time is reached. Additionally, it allows presetting a pre-defrost time, adjustable for the collection of gas before starting the defrost phase, thus increasing system efficiency.

Application examples: walk-in and display freezers.

Dimension: 71 x 28 x 71 mm.

Power Supply: 115 or 230Vac and 12 or 24Vac/dc
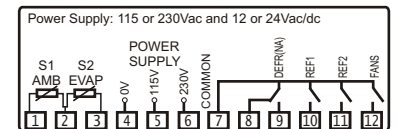
TC-920R*i*

It controls evaporator's fans, besides managing defrost cycles. It can work with up to three sensors, being two for temperature measurement and other fixed to the evaporator that controls defrost ending and fan return.

It features one digital input that can receive external pulses to synchronize defrost starting or simply to signal the status of chamber door. It enables a significant reduction of power consumption because it allows the programming of two setpoints: normal and saving. This is possible by the use of the third sensor, which measures the ambient temperature in the air return and selects the active setpoint based on the temperature difference between return and supply sensors (S3 – S1).

Application examples: walk-in and display freezers.

Dimension: 71 x 28 x 71 mm.

Power Supply:115 or 230Vac
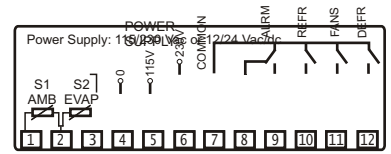Range: -50 to 75°C / -58 to 167°F

Sitrad
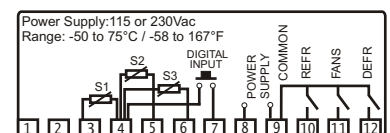
TC-940R*i*

It only performs defrost cycles when required, based on evaporator temperature. It provides higher efficiency, lower power consumption, and has a fourth relay to operate alarms or to turn lights off.
Application examples: walk-in and display freezers.
Dimension: 71 x 28 x 71 mm.

TC-900RG2 Slim

Single-module specific thermostat for beverage displays. It has two sensors (for room temperature and thaw management) and three control outlets (for a compressor, a fan, and a thaw resistor). Its internal relay for the 16A/250Vac compressor allows it to directly control motors up to 1HP without the need for a contactor. It has an internal 90 to 264Vac universal power supply unit. In addition, it is encased in a small-size case and its display allows the temperature to be seen from afar.
Example of applicatin: beverage displays.
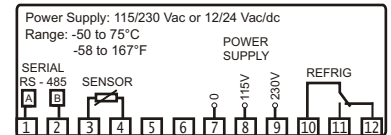Dimension: 90 x 44 x 44 mm.
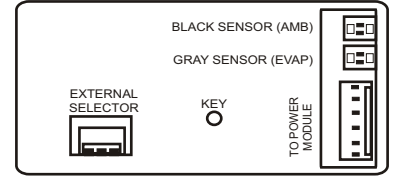
REFRIGERATED

MT-512R*i plus*

Natural defrost function by means of compressor shutdown and permanent ventilation, presents one control output and programmable cooling and defrost times. Available in 16A version for direct operation of compressors up to 1 HP.
Application examples: walk-in and display coolers.
Dimension: 71 x 28 x 71 mm.

MT-512R*i* LOG

Offers the same features as MT- 512R*i plus* and has an internal memory for data storage (datalogger), which enables you to record the temperature gauged and the control exit status at user-defined time intervals. Therefore, it allows for ongoing data collection without the need for a permanently connected computer, considering the information can be later sent via RS-485 serial communications.
Applications: supermarkets, perishable loads, and cold storage chambers.
Dimension: 71 x 28 x 71 mm.
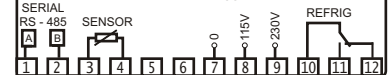
AutoPID *plus*

For cooling and heating processes, uses PID control (Proportional – Integral – Derivative), which allows controlling the temperature with high degree of stability. It has an analog output from 0 to 10 Vdc and PWM output.
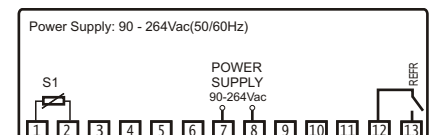Application examples: cold storage chambers, stoves, laboratories, and injection machines.
Dimension: 71 x 28 x 71 mm.
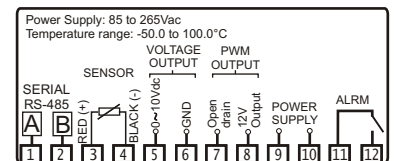
TIC-17G

Thermostat applied for control of both heating and cooling systems which has a single key to adjust all of its parameters. The difference lies in its dimensions that offers better visualization at a distance.
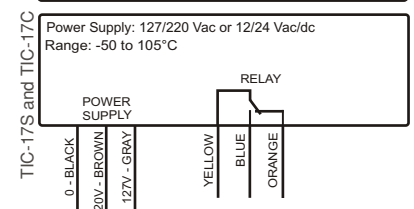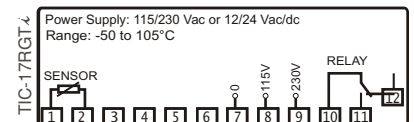Dimension: 90 x 44 x 44 mm.

TIC-17C, TIC-17S e TIC-17RGT*i*

Easy to adjust and easy to install thermostats. They can be applied to control either heating or cooling. They feature a single key to allow adjusting all their parameters.
Available in 10A (TIC-17S and TIC-17C) and 16A (TIC-17RGT*i* and TIC-17C) versions.

TIC-17S
76 x 60 x 38 mm

TIC-17C
⌀ 60 x 40 mm deep.
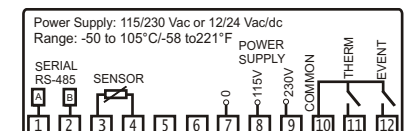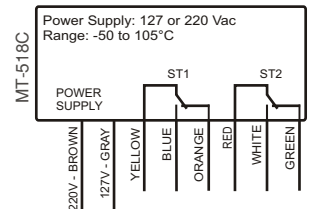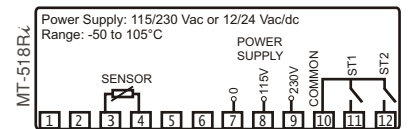
TIC-17RGT*i*
71 x 28 x 71 mm

MT-511Ri and MT-511C

MT-511Ri
71 x 28 x 71 mm

MT-511C
⌀ 60 x 40 mm deep.

Thermostats having functions to allow serving many cooling and heating applications.
Available in 10 A (MT-511C) and 16 A (MT-511Ri) versions.

MT-511Ri
Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 105°C
POWER SUPPLY
SENSOR
0 115V 230V OUTPUT
1 2 3 4 5 6 7 8 9 10 11 12

MT-511C
Power Supply: 127/220 or 12/24 Vac/dc
Range: -50 to 105°C
POWER SUPPLY
OUTPUT
0 - BLACK 220V - BROWN 127V - GRAY YELLOW BLUE ORANGE

MT-511RJ

Temperature controller and indicator that records maximum and minimum temperatures ranging from 100 to 600 C°, with type J thermocouple sensor.
Dimension: 71 x 28 x 71 mm.

MT-516CVT

Thermometer/thermostat with integrated cyclic timer and digital input. It is distinguished by its True RMS monitoring feature (from 90 to 280 Vac) that prevents the compressor from being damaged due to voltage fluctuations. It features programmable adjustment for minimum and maximum operating voltages.
Application examples: milk cooling tanks.
Dimension: ⌀ 60 x 40mm deep.

MT-516CVT
Power supply: 240Vac
Range: -50 to 105°C
-58 to 221°F
POWER SUPPLY DIGITAL INPUT THERM TIMER
0 - BLACK 240V - BROWN PURPLE PURPLE YELLOW BLUE RED WHITE

MT-516RVTi plus

Sitrad

It has the same functions as MT-516CVT.
Application examples: milk cooling tanks.
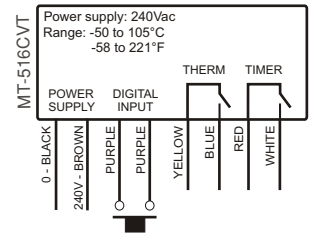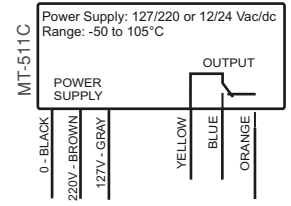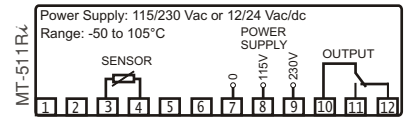Dimension: 71 x 28 x 71 mm.

MT-516RVTi plus
Power supply: 115 or 230Vac
Range: -50 to 105°C/-58 to 221°F
SERIAL RS-485 SENSOR POWER SUPPLY VOLTMETER THERM COMMON TIMER
A B 0 115V 230V
1 2 3 4 5 6 7 8 9 10 11 12

MT-516Ri and MT-516C

MT-516Ri
71 x 28 x 71 mm

MT-516C
⌀ 60 x 40 mm deep.

For controlling and indicating temperature, they can be configured for cooling or heating.
They feature an integrated cyclic timer.
Application examples: heat pumps and milk coolers.

MT-516Ri
Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 105°C
POWER SUPPLY
SENSOR 0 115V 230V COMMON THERM TIMER
1 2 3 4 5 6 7 8 9 10 11 12

MT-516C
Power Supply: 127/220 or 12/24 Vac/dc
Range: -50 to 105°C
POWER SUPPLY THERM TIMER
0 - BLACK 220V - BROWN 127V - GRAY YELLOW BLUE ORANGE RED WHITE GREEN

MT-518Ri and MT-518C

MT-518Ri
71 x 28 x 71 mm

MT-518C
⌀ 60 x 40 mm deep.

Double-stage controller with two outputs that can be configured both for cooling or heating. Its 2nd output can also be configured for intra or extra-range alarm.
Application example: air conditioning systems.

MT-518Ri
Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 105°C
POWER SUPPLY
SENSOR 0 115V 230V COMMON ST1 ST2
1 2 3 4 5 6 7 8 9 10 11 12

MT-518C
Power Supply: 127 or 220 Vac
Range: -50 to 105°C
POWER SUPPLY ST1 ST2
220V - BROWN 127V - GRAY YELLOW BLUE ORANGE RED WHITE GREEN

RT-607Ri plus

Sitrad

Digital temperature controller attached with a weekly schedule. Allows up to four events to be configured, with programmable start and end, which can be on a daily, weekly basis or divided into workdays and weekends. It contains a timing programmer in real time allowing and a permanent internal battery to ensure the clock synchronization.
Dimension: 71 x 28 x 71 mm.

RT-607Ri plus
Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 105°C/-58 to221°F
SERIAL RS-485 SENSOR POWER SUPPLY COMMON THERM EVENT
A B 0 115V 230V
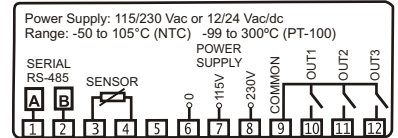1 2 3 4 5 6 7 8 9 10 11 12

MT-543R*i plus*

It features three stages, and can be applied either for cooling or heating. It allows the second stage to be programmed as alarm (within or outside range), and the third stage as cyclic timer.

Besides, it has an internal audible alarm (buzzer) and accepts two types of sensors: NTC thermistor (- 50 to 105 °C) or PT-100 (- 99 to 300 °C).

Application examples: industrial furnaces and blood preservation chambers.

Dimension: 71 x 28 x 71 mm.

Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 105°C (NTC)   -99 to 300°C (PT-100)

SERIAL RS-485 | SENSOR | POWER SUPPLY | COMMON | OUT1 | OUT2 | OUT3
A B 1 2 | 3 4 5 | 0 115V 230V 6 7 8 | 9 | 10 | 11 | 12
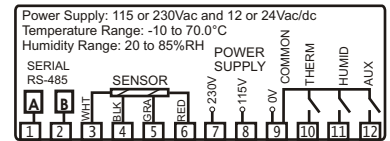
TEMPERATURE AND HUMIDITY CONTROLLERS

MT-531R*i plus*

Includes an auxiliary output for operation as a dual stage thermostat or humidistat. It can also operate as an intra or extra-range alarm.

The MT-531R*i plus* also includes an internal buzzer that can be configured as an intra or extra-range alarm of temperature and humidity.
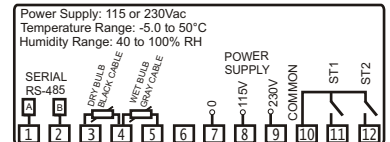
Dimension: 71 x 28 x 71 mm.

New

Power Supply: 115 or 230Vac and 12 or 24Vac/dc
Temperature Range: -10 to 70.0°C
Humidity Range: 20 to 85%RH

SERIAL RS-485 | SENSOR | POWER SUPPLY | COMMON | THERM | HUMID | AUX
A B 1 2 | WHT BLK GRA RED 3 4 5 6 | 230V 115V 0V 7 8 9 | 10 | 11 | 12

AHC-80*plus*

It measures air moisture based on psychometrics (dry bulb and wet bulb). It features an integrated temperature controller, and allows configuring for dual-stage of humidity.

It operates in the range from 40 to 100% RH and from –5 to 50 °C.

Application examples: air conditioning and storage of fruits and flowers.

Dimension: 71 x 28 x 71 mm.

Power Supply: 115 or 230Vac
Temperature Range: -5.0 to 50°C
Humidity Range: 40 to 100% RH

SERIAL RS-485 | DRY BULB BLACK CABLE | WET BULB GRAY CABLE | POWER SUPPLY | COMMON | ST1 | ST2
A B 1 2 | 3 4 | 5 6 | 0 115V 230V 7 8 9 | 10 | 11 | 12

FOR EXCLUSIVE USE IN POULTRY AND PIG RAISING

HUMITECH II *plus*

With temperature and humidity sensors, it simultaneously controls up to three fan groups, gas exhaust system, nebulization, temperature and power failure alarms, shade opening and closing, and controls the heating system during winter. It features nine relay outputs, being easily installed with DB9 (sensors) and DB15 (control outputs) connectors.

Dimension: 97,3 x 148 x 54,6 mm.

HUMITECH III

It controls up to four groups of fans, besides the minimum ventilation. It features controls for two nebulization stages, one for cooling (with shutdown in case of high humidity), and another for humidifying (in case of low humidity). Besides, it features automatic cold/warm, and the possibility to operate the heating control together with cooling stages.
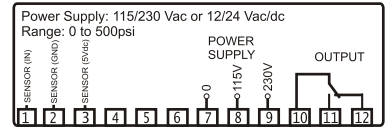
Dimension: 97,3 x 148 x 54,6 mm.

PCT-100R*i*

Single-stage, from 0 to 500 psi, it can be applied either in cooling systems, both in suction and exhaust, or in air compressors and water pumps control. It is compatible with ammonia water.
Dimension: 71 x 28 x 71 mm.

Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: 0 to 500psi

PCT-400R*i plus*

For cooling centrals, it features four stages and alarm output. It operates in independent pressure ranges, from 0 to 100psi (suction) or 0 to 500psi (exhaust). It is compatible with ammonia water.
Application examples: cooling racks.
Dimension: 71 x 28 x 71 mm.

Power Supply: 12 Vdc
Range Hi:0 to 500psi / 0 to 34.4 bar
Range Low: 0 to 100psi / 0 to 6.9bar
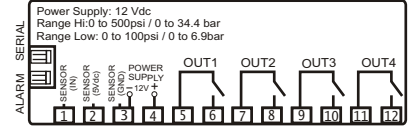
PCT-420R*i plus*

For pressurization and/or depressurization, it features four outputs that can be configured for pressure control, with the last two being able to be additionally configured as cyclic timer or alarm. The outputs configured for pressure control also feature an internal hour meter to activate the maintenance alarm and to perform automatic rotation of load activation. It is compatible with ammonia water.
Application examples: water pumps, cooling systems, and fire prevention systems.
Dimension: 71 x 28 x 71 mm.

Power Supply: 12 Vdc
Range Hi:0 to 500psi / 0 to 34.4 bar
Range Low: 0 to 100psi / 0 to 6.9bar
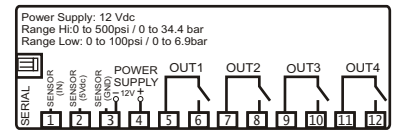
PCT-1600 *plus*

Pressure controller featuring 16 outputs (double suction and discharge) for mounting racks, which includes Sitrad connection; 16 configurable hour meters (working hours for each output); 3 pressure transducers (control) and 3 temperature sensors (safety); 6 configurable digital inputs; 3 operation modes for the compressors (sequential, according to capacity, and rotative output actuation according to operation time). It also enables you to configure night and day set points, allowing a great energy saving.
Dimension : 160 x 90 x 66,27mm.

New
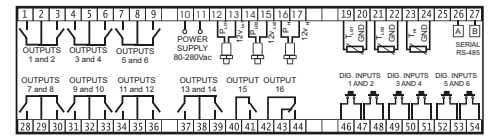
## PhaseLOG *plus*

This instrument uses True RMS voltage measurement method to monitor power quality and to protect single-phase, two-phase and phase-three electric installations against under- and over-voltage, angular and modular asymmetry, and phase fault and inversion. It features internal real-time clock and memory to store voltage values for each phase of the electric grid at user-defined time intervals (data-logger). It can be used either for commercial or residential applications.
Application examples: power quality monitoring, motor protection, electric panels, and other three-phase and single-phase equipment.
Dimension: 71 x 28 x 71 mm.

Power Supply: 85 to 265Vac
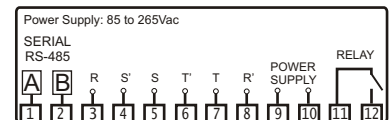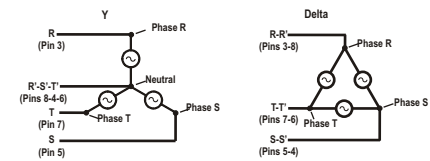
Monivolt

This instrument monitors and protects electric equipment, being suitable for industrial, commercial or residential applications. By means of True RMS measurement method, it performs voltage monitoring, being able to protect single-phase loads against under- and/or over-voltage. Besides, it features an automatic timer that waits three minutes before reactivating its output. This function ensures the protection of equipment the need a minimum shutdown time (e.g., compressors).
Application examples: protection of single-phase electric equipment.
Dimension: 75 x 60 x 22,5 mm.

New
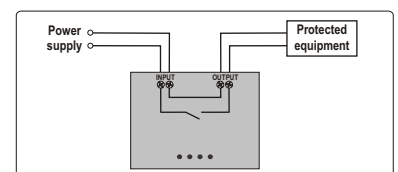
PROGS I

Scheduler with real-time clock that allows configuring up to four events for each weekday, through the definition of start and end times for each one. It has a permanent internal battery to ensure clock synchronization for many years, even in case of power failure.
Application examples: equipment that need to operate in scheduled times.
Dimension: 71 x 28 x 71 mm.

Power Supply: 220 Vac

POWER SUPPLY
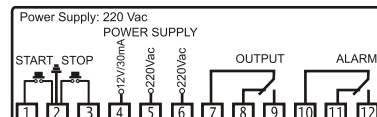220V 220V
OUTPUT

1 2 3 4 5 6 7 8 9 10 11 12
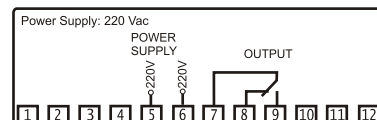
TEMPUS I

It operates as cyclic timer or as process timer, which can be triggered by external keys. It features configurable time base.
Application examples: equipment that need control of process time.
Dimension: 71 x 28 x 71 mm.

Power Supply: 220 Vac

POWER SUPPLY
START STOP 12V/30mA 220Vac 220Vac OUTPUT ALARM

1 2 3 4 5 6 7 8 9 10 11 12

ICE MATIC and CICLOMAT

These timers are indicated for all types of cyclic events.
Available in 16A version for direct operation of compressors up to 1 HP.
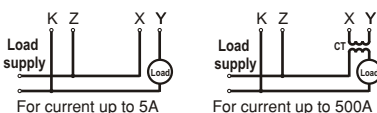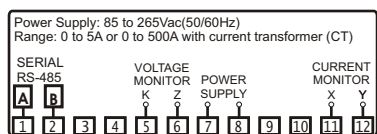Dimension: 100 x 73 x 37 mm.

EnergyLOG *plus*

Instrument for measuring and monitoring the major parameters regarding energy quality on single-phase electrical installations. By means of RMS voltage and current measurements (True RMS), it calculates the real, reactive and apparent powers, in addition to the power factor and accumulated power (consumption). It features internal real-time clock and data-logger, which allows storing the measured values to its memory at user-defined time intervals.
Dimension: 71 x 28 x 71 mm.

Sitrad

Power Supply: 85 to 265Vac(50/60Hz)
Range: 0 to 5A or 0 to 500A with current transformer (CT)

SERIAL RS-485 | VOLTAGE MONITOR | POWER SUPPLY | CURRENT MONITOR
A B | K Z | | X Y
1 2 3 4 5 6 7 8 9 10 11 12

K Z   X Y
Load supply   Load
For current up to 5A

K Z   X Y
Load supply   CT   Load
For current up to 500A

Penta III

Portable thermometer that monitors and indicates the temperature in five different points. Due to its ample versatility, it is excellent for measuring temperature in central, automotive, and wall-mounted air conditioning equipment; freezers; for frigorific balancing of evaporators; within vehicles and rooms; machines in general; of oil, water, and other liquids. It is also efficiently employed in medical and hospital equipment.
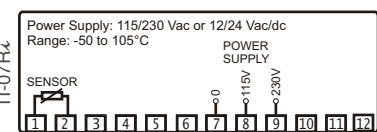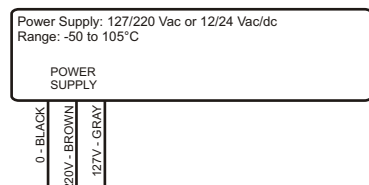
TI-02, TI-06 and TI-07R*i*

Thermometers featuring decimal display and OFFSET adjustment key. They are excellent for application in frigorific equipment, machine tools, stoves, furnaces, automotive, air-conditioned rooms, and food, chemical and drug industries.

TI-07R*i*
71 x 28 x 71 mm

TI-02
76 x 60 x 36 mm

TI-06
Ø 60 x 40 mm deep.

TI-07R*i*

Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 105°C

SENSOR | POWER SUPPLY
| 0 115V 230V
1 2 3 4 5 6 7 8 9 10 11 12

TI-06 and TI-02

Power Supply: 127/220 Vac or 12/24 Vac/dc
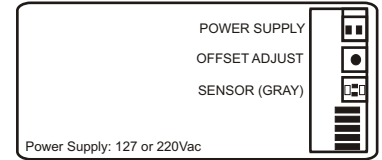Range: -50 to 105°C

POWER SUPPLY

0 - BLACK
220V - BROWN
127V - GRAY

BIGTHERM

It features dimensions and design allowing to view the temperature at some distance. It has an OFFSET adjustment key, which allows displacing the temperature indication.
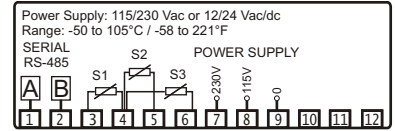Dimension: 91 x 45 x 20 mm.

POWER SUPPLY
OFFSET ADJUST
SENSOR (GRAY)
Power Supply: 127 or 220Vac

TI-33R*i plus*

With up to three sensors, presents differential temperature calculations and their average.
Dimension: 71 x 28 x 71 mm.

Sitrad

Power Supply: 115/230 Vac or 12/24 Vac/dc
Range: -50 to 105°C / -58 to 221°F
SERIAL RS-485
S1   S2   S3   POWER SUPPLY
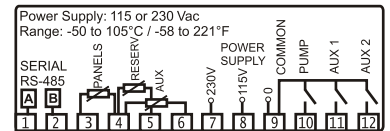A B   230V   115V   0
1 2 3 4 5 6 7 8 9 10 11 12

SOLAR HEATING

MICROSOL II *plus*

Differential temperature controller with three sensors that works in the control of water circulation pump. It features functions to prevent water from overheating or freezing within the piping. It has two support outputs, which may be electric-, gas-, or diesel-fired, or to schedule the filtration of the swimming pool. Besides, it features a real-time hourly scheduler that allows configuring a weekly schedule having up to four daily events, and permanent internal battery to ensure clock synchronization for many years, even in case of power failure.
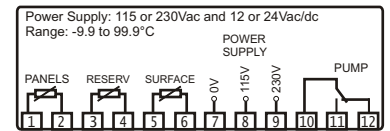Dimension: 71 x 28 x 71 mm.

Sitrad

Power Supply: 115 or 230 Vac
Range: -50 to 105°C / -58 to 221°F
SERIAL RS-485   PANELS   RESERV   AUX   POWER SUPPLY   COMMON   PUMP   AUX 1   AUX 2
A B   230V   115V   0
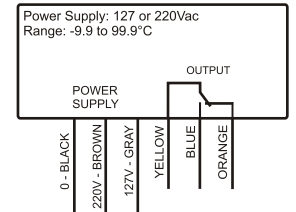1 2 3 4 5 6 7 8 9 10 11 12

MICROSOL and MICROSOL R*i*

Differential thermostats for solar heating that control water circulation pumps based on the temperature differential between the solar panels and the thermal tank or swimming pool. It features functions to ensure better collection of solar power, to prevent water from freezing within the piping during winter, and to control its overheating.
Available in 16A version for direct operation of pumps up to 1 HP.

Microsol
⌀ 60 x 40 mm deep

Microsol R*i*
71 x 28 x 71 mm

Power Supply: 115 or 230Vac and 12 or 24Vac/dc
Range: -9.9 to 99.9°C
PANELS   RESERV   SURFACE   0V   115V   230V   POWER SUPPLY   PUMP
1 2 3 4 5 6 7 8 9 10 11 12

Power Supply: 127 or 220Vac
Range: -9.9 to 99.9°C
OUTPUT
POWER SUPPLY
0 - BLACK   220V - BROWN   127V - GRAY   YELLOW   BLUE   ORANGE

ANASOL

Economy version of the differential temperature controller for pumped solar heating systems. It features a function to prevent the water from freezing in the pipes, and a 16 A relay for direct operation of circulation pumps up to 1 HP. It allows operating them manually or automatically by means of a three-position switch.
Dimension: 73,5 x 100 x 37 mm.

RollerBag® **Sensor**

Temperature sensor* covered with a stainless steel shell, cold-molded on a silicon-rubber sleeve, which provides complete sealing, besides offering ruggedness and protection against radiation. It is water-resistant, developed and produced by Full Gauge Controls to be used exclusively with its instruments, having the batch number and manufacturing date printed on its cable, clearly and visibly certifying its origin. Operates in the range from - 50 to 105 °C.

- Patent pending for the process, product and trademark.

The cables included with Full Gauge Controls® products can be supplied in different lengths. Please consult by the time of ordering.

Pressure Transducer SB49

Manufactured of stainless steel, it has high stability and accuracy, being immune to interference and vibration. Operates between - 40 and 125 °C, for pressures ranging from 0 to 100 psi or from 0 to 500 psi. It has a male NPT ¼" fitting, featuring both voltage output signal from 0,5 to 4,5 Vdc and current output signal from 4 to 20 mA.

It allows measuring pressure in the following fluids: compressed air, water, oil, and cooling gases (including ammonia water).

INNER-MEMORY EQUIPPED INSTRUMENTS

Equipped with a real-time clock and inner memory to store data for user-defined time periods (datalogger).

MT-512R*i* LOG
Chilled product thermostat

PhaseLOG *plus*
Voltage monitor

EnergyLOG *plus*
Power monitor

TH-01

Large-sized thermo-hygrometer. It indicates ambient temperature and humidity, and can be viewed from some distance, which makes easier to monitor the variables.
It is indicated for mounting on flat surfaces (superposed).

Dimension: 645 x 285 x 60 mm.

Sitrad®

More than just automating, Sitrad® innovates in the management of cooling, heating, air conditioning, and solar heating systems by means of its most distinguishing feature: connectivity. Besides allowing to monitor installations locally, this unique and free Software allows the remotely management of *plus* Line instruments connected to equipment from many segments, being them industrial, commercial or residential.

Like Sitrad®, besides obtaining a significant reduction in electric power consumption, the user can continuously evaluate, configure, and store data on temperature, humidity, and pressure, among others. And, by means of a secure connection (client-server), the user can change the operating parameters of instruments, with full precision and in a practical way. By means of charts and reports, and with messages sent by the software to registered mobile phones and e-mails, in the event the variables are not within the established standards, the user can take over the control of his installation with all the easiness, comfort and safety that only Sitrad® can offer.

Sitrad® comprises different modules: Local, Remote and its most recent evolution, Mobile.

-Local: must be installed in the computer to which the instruments are connected via interface;

-Remote: must be installed in the computer that will remotely manage the installation, via Internet;

-Mobile: manages facilities via cell phone, communicating with the local module.

With Mobile, the user has another option for remote management. Without using a computer, it provides even easier remote installation management.

It is the connectivity allowing to take over the control, anytime, anywhere.
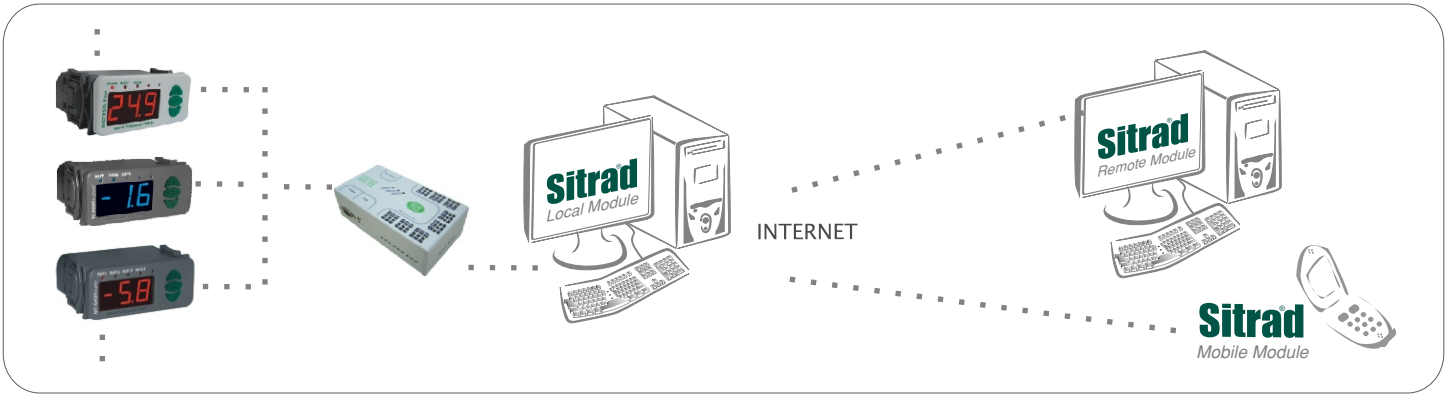
www.sitrad.com

Besides Sitrad® full download, information, tips, and links, the website www.sitrad.com makes available two different ways of learning the operation of the Software.

By means of the link "Operate Sitrad" it is possible to choose to download either the Remote Module, to operate an actual installation connected to operational controllers in our labs, or the Trial Module that generates random data based on the virtual operation of a controller.

In the website, it is also possible to download all other Sitrad® Modules, to learn about *plus* line products that have connectivity with Sitrad®, and to contact us.

Connection with Sitrad®

TC-900R*i clock*
Temperature controller for display freezers. Allows scheduling of up to eight daily defrosts.

MT-512R*i plus*
Temperature controller for display coolers with command output and defrost function.

MT-512R*i* LOG *New*
Temperature controller with internal datalogger.

AutoPID *plus*
Temperature controller for cooling and heating processes with proportional output.

PCT-400R*i plus*
Pressure switch for high or low pressures, controls up to four compressors or fans.

PCT-420R*i plus*
Pressure controller with four independent outputs.

MT-543R*i plus*
Controller for cooling or heating with three stages and internal buzzer.

MT-516RVT*i plus*
Controller for cooling or heating with mains voltage monitor.

RT-607R*i plus*
Thermostat for cooling or heating, allows daily scheduling.

TI-33R*i plus*
Thermometer with up to three sensors, presents differential temperature calculations and their average.

PhaseLOG *plus*
Instrument for monitoring and protecting single-phase, two-phase and three-phase electrical installations.

EnergyLOG *plus*
Instrument for measuring and monitoring the major parameters regarding energy quality on single-phase electrical installations.

MICROSOL II *plus*
Differential temperature controller, with three sensors, for solar heating systems.

AHC-80 *plus*
Psychrometric temperature and relative humidity controller, ideal for environments with high humidity content. Operates in the range from 60 to 100% RH.

Humitech II *plus*
Temperature and humidity controller, exclusive for poultry and pig raising.

MT-531R*i plus* *New*
Temperature and humidity controller with an auxiliary output for operation as a dual stage thermostat or humidistat. It can also operate as an alarm.

PCT-1600 *plus* *New*
Pressure controller featuring 16 outputs (double suction and discharge) for mounting racks, with connection to Sitrad®.

MOD64 *New*
Expansion module with four digital outputs and six inputs, being four digital (two voltage and two dry-contact), and two analog. It is used as a supplement in the automation line, working together with the controllers. It is able to monitor the operation of motors, compressors, and fans, besides checking door opening and closing. Additionally, four relay outputs allow activating switches, alarms, and lights, among other actions. It is developed to be fitted in DIN rails.
Dimension: 115 x 90 x 40 mm.

FG-Wi Converter *New*
Transmitter (or receiver) that converts RS–485 data to radiofrequency (RF) and vice-versa, such that Line controllers can communicate wirelessly with Sitrad®. Using this converter, installations communicating with Sitrad through twisted pair (RS-485) can change to wireless communication.

FG-Wi Router *New*
This Device allows an increase in the reach of a wireless FG-Wi (repeater) network, as well as the identification of wireless networks/routes (router), thereby avoiding interference between wireless networks that are close by, or in other words, in the same area of coverage.
It is positioned in the network in a way that the FG-Wi Converters (SLAVE), those that are beyond the reach of the FG-Wi Converter (MASTER), are able to communicate with the Full Gauge (FG-Wi) wireless network.

CONV 256
141 x 75 x 46 mm

Interfaces *New*
Interfaces are devices used to connect up to 256 *plus* Line digital instruments to Sitrad® It performs the communication between the controllers and the computer, by means of converting RS–485 signals from the controllers to RS–232 or USB of the computer. The CONV256 dual-voltage interface is connected to the computer using DB9 or USB cables; CONV32 is connected to the computer by a USB cable.

CONV 32
31 x 81 x 63 mm